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(19) 🌀 KOREAN INTELLECTUAL PROPERTY OFFICE

KOREAN PATENT ABSTRACTS

(11)Publication number: 1020020057470 A
(43)Date of publication of application: 11.07.2002

(21)Application number: 1020010000513   (71)Applicant: CJ CORP.
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(51)Int. CI   C12N 1/20

(54) CORYNEBACTERIUM AMMONIAGENES NV4-82-9 PRODUCING 5-XANTHYLIC ACID IN HIGHER YIELD AND PRODUCTION METHOD OF 5-XANTHYLIC ACID BY USING THE SAME

(57) Abstract:

PURPOSE: Provided are a microorganism, Corynebacterium ammoniagenes NV4-82-9, producing 5-xanthylic acid in higher yield and having Norvaline resistance, and a production method of 5-xanthylic acid by using the same. CONSTITUTION: Corynebacterium ammoniagenes NV4-82-9(KFCC-11248) produces 5-xanthylic acid(XMP) and shows Norvaline resistance.Particularly, It is characterized by growing in the presence of an infinitesimal quantity of or 6g/l of Norvaline. 5-xanthylic acid is produced by the steps of: firstly shacking culturing Corynebacterium ammoniagenes NV4-82-9(KFCC-11248) in a seed culture medium at 30 deg.C, pH 7.3 with 180 rpm for 24 hours; secondary shacking culturing the firstly cultured Corynebacterium ammoniagenes NV4-82-9(KFCC-11248) in a seed culture medium at 31 deg.C, pH 7.3 with 900 rpm for 24 hours to activate it; and shacking culturing the secondary cultured Corynebacterium ammoniagenes NV4-82-9(KFCC-11248) at 33 deg.C with 400 rpm for 90 hours in a fermentation medium, wherein if the content of sugar remaining in the culture solution is 1% or less, glucose can be added in the amount to reach total sugar content of 30%.

Legal Status
Date of request for an examination (20010105)
Notification date of refusal decision ( )
Final disposal of an application (registration)
Date of final disposal of an application (20030731)
Patent registration number (1004023200000)